

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v5

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[5x + 6] - 4}{3}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[2(x - 5)]}{7} - 4$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 6 \cdot (f[3(x + 9)] - 7)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

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Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f\left[\frac{x-3}{4}\right]}{2} + 5$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 8 \cdot f\left[\frac{x}{6} + 4\right] + 3$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 2 \cdot f[9x - 3] - 7$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.